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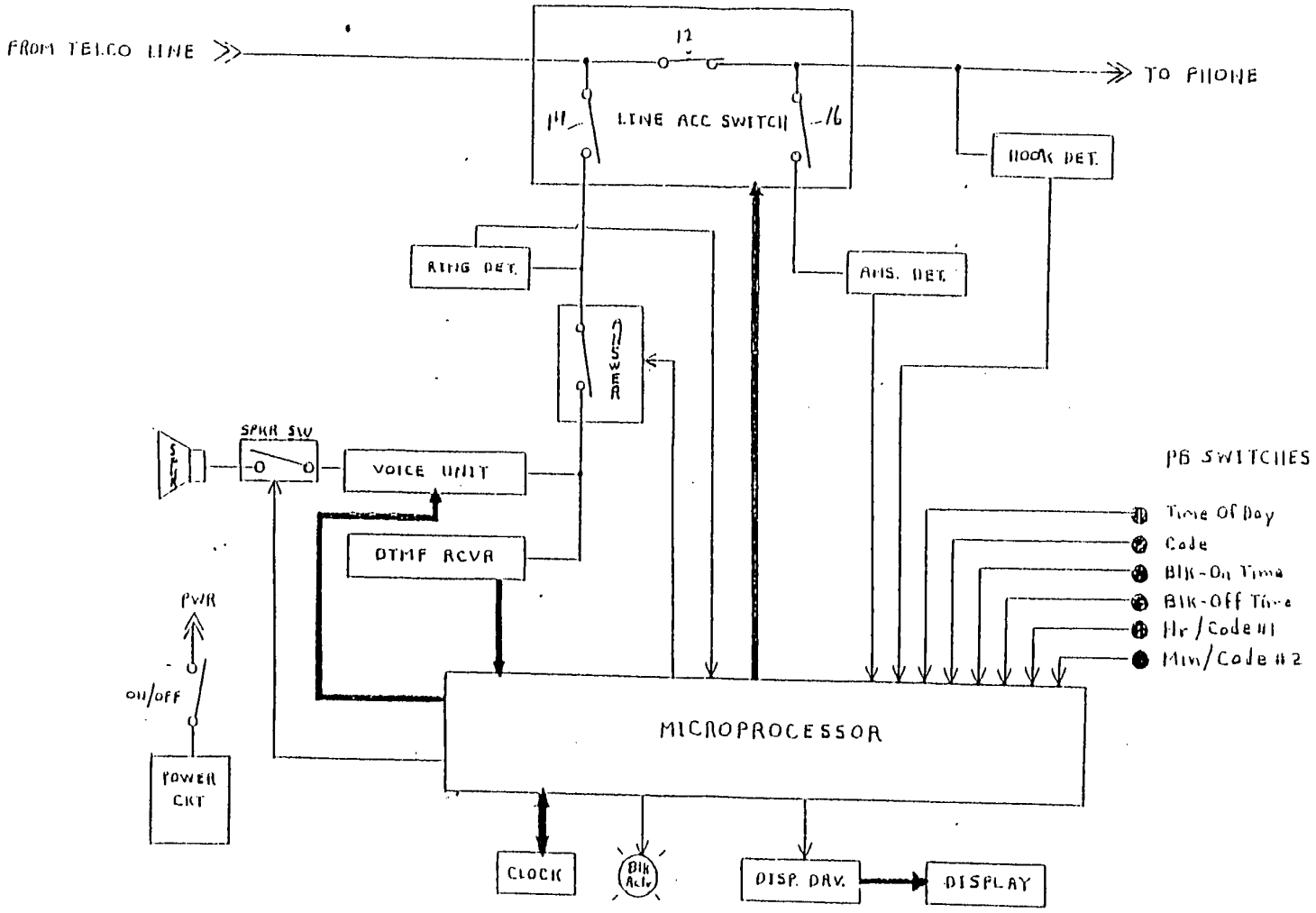


FIG. 1

Telephone Blocker - Circuit Schematic

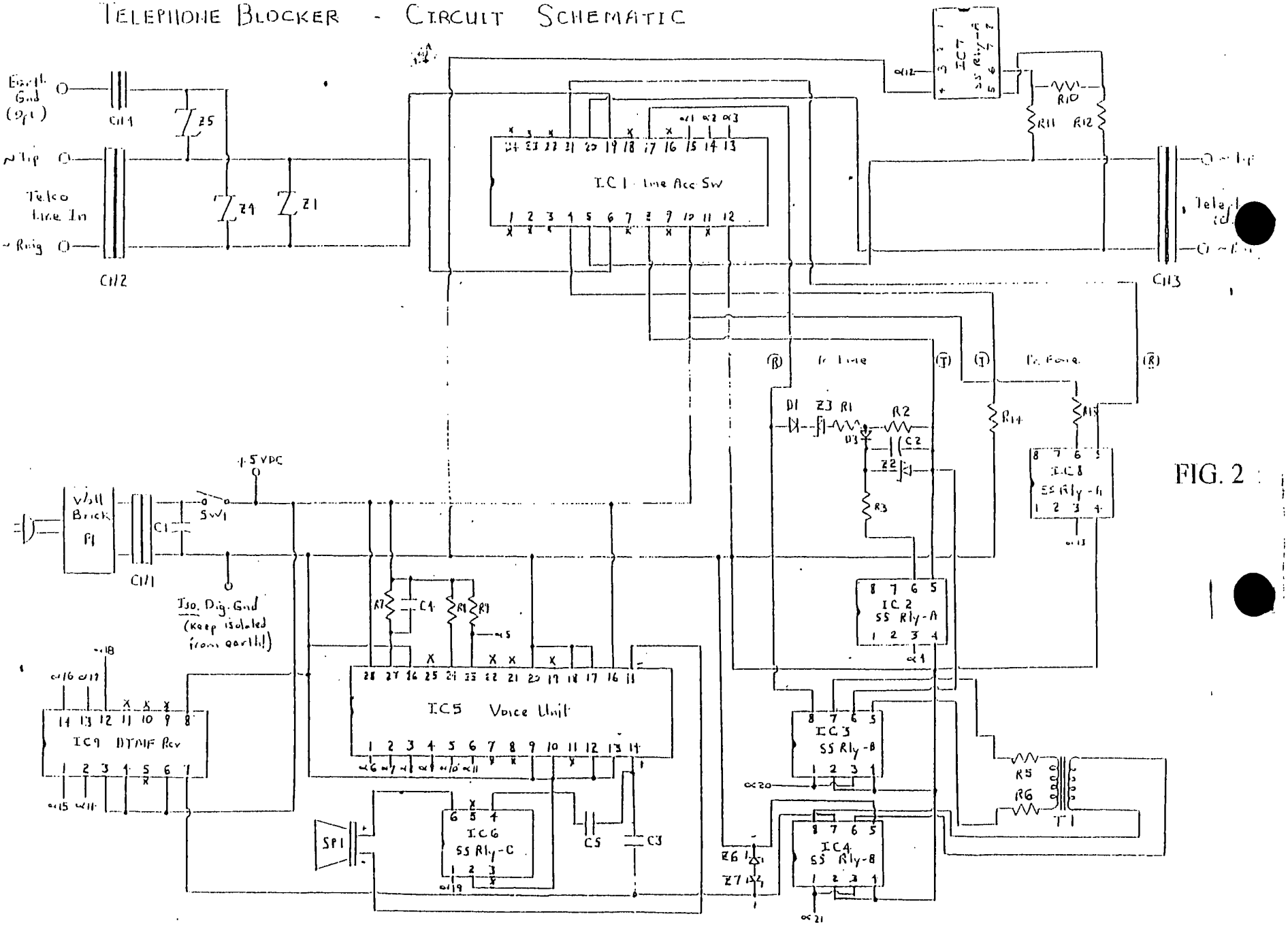
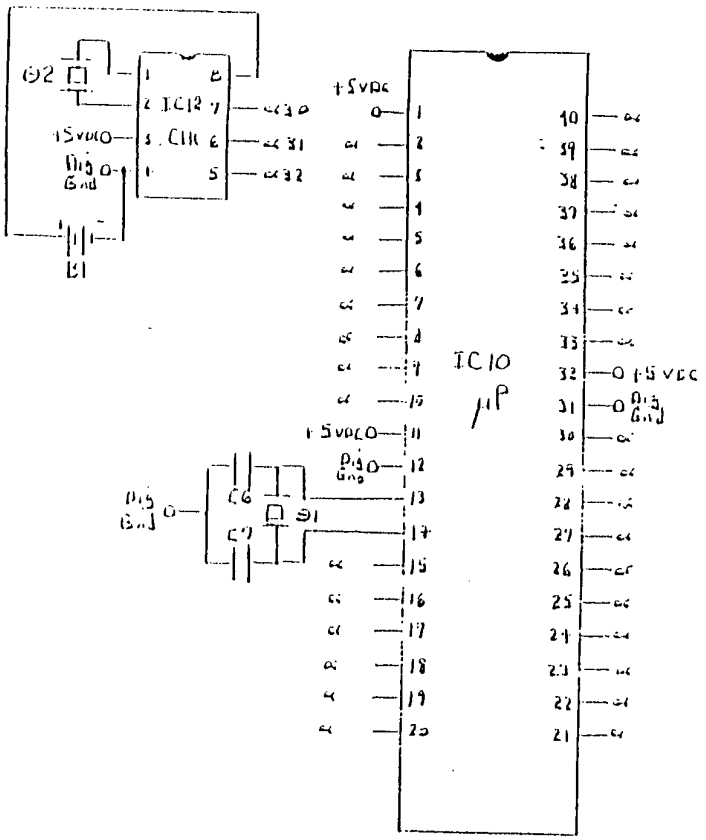
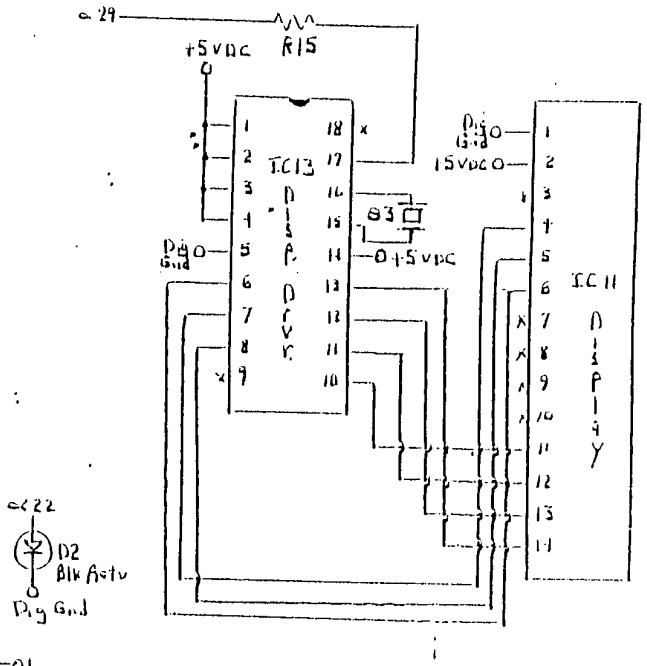


FIG. 2


IC10
µP
+5VDC
Dig Gnd
B1
B2
B3
C6
C7
S1


R15
+5VDC
IC13
IC11
D2
Blk Astv
Dig Gnd

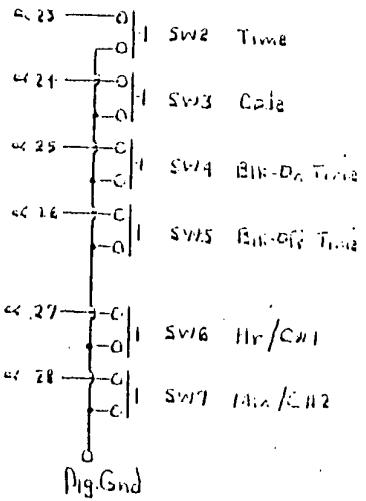

SW2 Time
SW3 Date
SW4 Blk-On Time
SW5 Blk-off Time
SW6 Hr/Cnt
SW7 Min/Cnt2
Dig.Gnd

FIG. 3a

DESIGNATION	DESCRIPTION	PART#	SOURCE
P1	Power Brick 5v 1a	T310	A
C1	470uf	4107PHCT	A
IC1	Line Cd Acc Sw (Lucent)	ATTL7583BF	B
Z1 Z4 Z5	Surge Abs 430v 2500a	P7257	A
CN1	Power Jack	CP-3504	A
CN2 CN3	Telco Mod Connector	A9077	A
D1 D3	1N4004	1N4004DICT	A
R1	5.1K 2w	P5.1KW-2BK	A
C2	100uf	4126PHCT	A
R2	510		
Z2 Z6 Z7	4.7v 0.5w	1N5230BMSCT	A
R3	1.5K		
IC2 IC7 IC8	SS Iso Rly (Clare)	CLA108	A
IC3 IC4	SS Iso Rly (Clare)	252-004	C
Z3	51v 1w	1N4757AMSCT	A
R5 R6	10		
C3 C5	0.47uf	P4967	A
R7 R8 R9	100K		
C4	0.001uf	P4898	A
IC5	Voice Device (ISD)	ISD1420P	A
CN4	(Opt) Gnd Post		
T1	Xfmr 600:600	10624	A
IC6	SS Rly Sw (Clare)	252-001	C
SP1	Speaker	P9613	A
R10 R13 R14	300		
R11 R12	5.1K		
IC9	DTMF Rcvr (Motorola)	MC145436AP	C
SW1	SPST	CKN1004	A
IC10	uP (Microchip)	PIC16F877	D
IC11	Display (Seiko M16410A)	6529-OP	E
D2	LED	MR3350QT	A
SW2,3,4,5,6,7	SPST-NO	P8076SCT	A
IC12	Clock	DS1302	F
IC13	Display Driver	EDE702	G
O1 O3	Xtal 4MHz	CTX-006	A
O2	Xtal 32.768KHz	X801	A
B1	Battery 3v Li	P183	A
C6 C7	15pf	P4014A	A
R15	33K		

OTHER MISC PARTS

FIG. 3b

Printed Circuit Board
Panel/Box
Bypass Capacitors
Test Points
Display Connector
IC Sockets (8,14,14,18,24,28,40 pin DIP)

SOURCE REFERENCES

DigiKey	A
Lucent	B
Allied	C
Microchip	D
MP Jones Assoc	E
Dallas Semiconductor	F
E-Lab	G

ALPHA REFERENCES (Microprocessor Digital I/O)

1 2 3	Line Access Sw Control	DO
4	Ring Detect	DI
5	Play Voice	DO
6 7 8 9 10 11	Voice Address	DO
12	Hook Detect	DI
13	Answer Detect	DI
14 15 16 17	DTMF Data	DI
18	DTMF Valid Data	DI
19	Speaker Switch	DO
20	Answer1	DO
21	Answer2	DO
22	Blocking Active	DO
23 24 25 26 27 28	Push Button Inputs	DI
29	Display	DO
30 31 32	Clock I/F	DI/DO

FIG. 3c

Selective Telephone Blocker With Timer

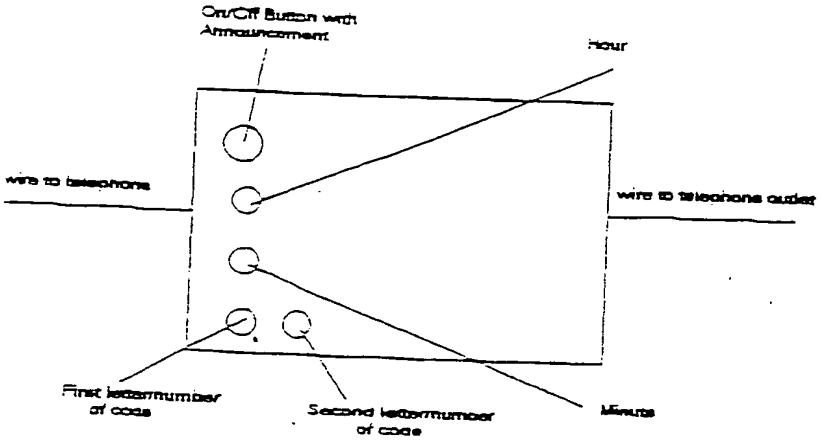


FIG. 4

US 6,259,778 B1